Talos DVR

Quick Reference Guide

12-2011

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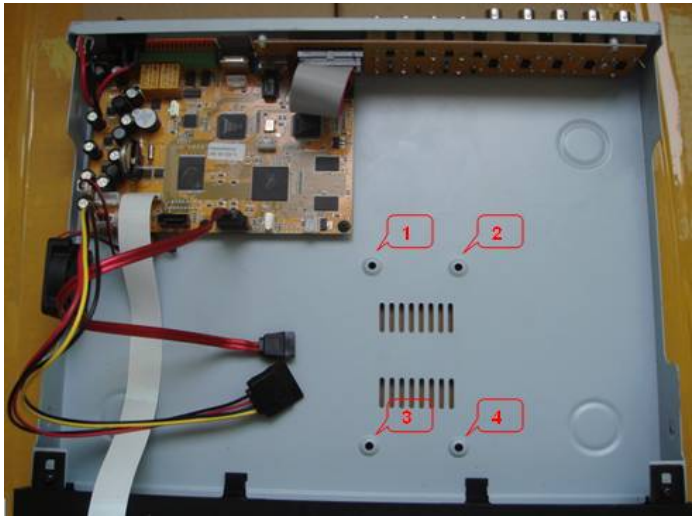
This quick reference guide was written to help you get started with design and installation of your surveillance system.
For a complete DVR user manual visit us at **TalosSecurity.com**

Design Your Surveillance System

- Determine the areas that require coverage
- A common wide angle lens (≤4mm) on a camera will have an approximate viewing angle of 60°
  - Stand at the camera position, look in the direction the camera will aim and cover one eye, this will provide a rough idea of the coverage area
- Order a 4, 8, or 16-channel DVR and the number of cameras depending on your needs
- The Talos DVRs store video on SATA hard drives with capacity up to 1TB
- The hard drive is user installed
- Determine the size of hard drive needed
  - 4-channels recording 24/7 will record approximately 5 weeks on a 1TB HDD
  - 8-channels recording 24/7 will record approximately 3 weeks on a 1TB HDD
  - 16-channels recording 24/7 will record approximately 1.5 weeks on a 1TB HDD

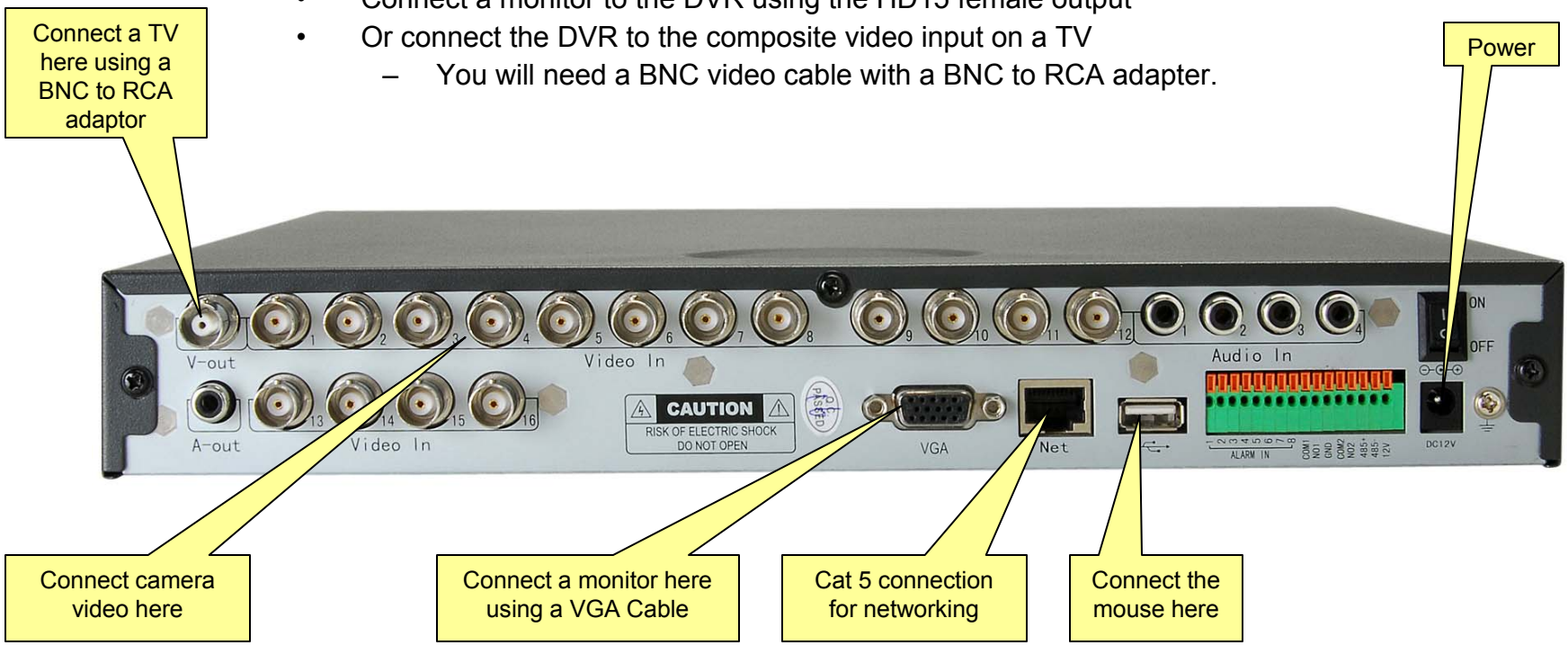
Installing the Hard Drive

- Remove the cover from the DVR
- Stick the hard drive isolation pads to the bottom chassis of the DVR over the four mounting holes
- Set the hard drive onto the isolation pads and secure the hard drive to the DVR chassis with the four included screws
- Connect the SATA data cable to the hard drive
- Connect the SATA power cable to the hard drive
- Confirm no cables or connectors inside the DVR came loose during shipping
- Replace the DVR cover



Connecting a Monitor

- You will need a monitor or TV to set up the DVR for use
- Connect a monitor to the DVR using the HD15 female output
- Or connect the DVR to the composite video input on a TV
  - You will need a BNC video cable with a BNC to RCA adapter.



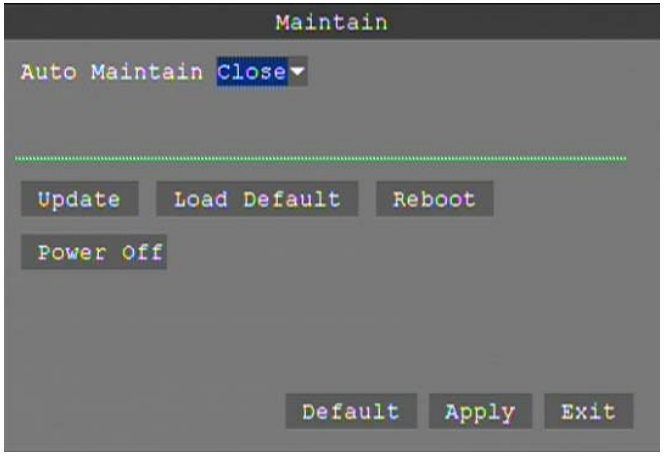
Turning On DVR

- When the DVR is first initialized you will need to format the hard drive by clicking on the “Yes” tab
- The DVR will display a message on the monitor when hard drive format is complete
- The DVR will beep to inform you that no cameras are connected

Shutting Down the DVR

NOTE: Never shut off the DVR using the power switch on the back of the unit. Treat the DVR as a Linux based PC and shut it down properly

- Click the right mouse button to bring up the on-screen menu
- Click “System” then click “Maintain”
- Click “Power Off”
- The DVR will notify you that it is properly turned off. The DVR can now be moved for installation



Testing Your System

- We highly recommend bench testing your system prior to installation
- On a table or bench unpack your DVR, cameras, power supplies, and cables
- As if installing the system, connect each piece to verify all is working properly

Connecting Cameras

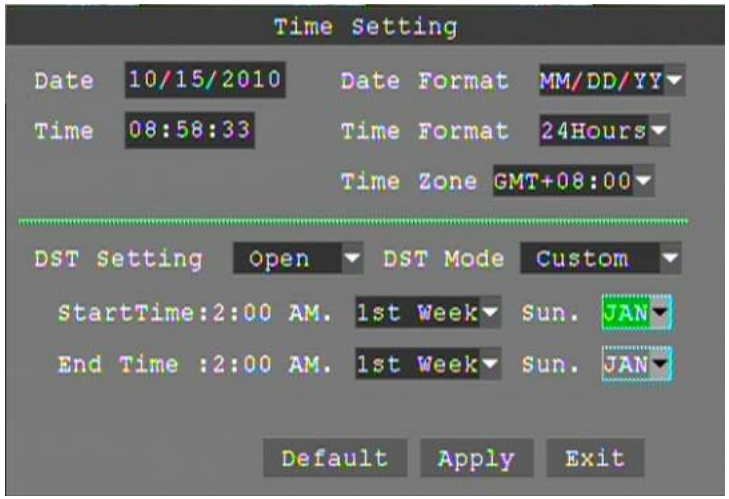
- Pre-assembled cables are available that carry both video and power
- Connect a cable to each camera
  - DC jack on cable to DC plug from camera
  - BNC jack on camera to BNC plug from cable
- Connect power cables to power supplies
  - Power cables can only be installed in one direction, the DC plug to the camera and the DC jack to the power supply
- Turn on the DVR, an image will be visible on any channel with a camera connected
- You have now confirmed that all components of your surveillance system are functioning
- Shut down DVR

Installing Your System

- Run camera cables
  - Make sure that pre-assembled camera cables are installed in the correct direction so the DC plug/jack will mate
  - Never exert force on the connectors during installation as this may cause the cables to fail
- Mount the cameras and connect video and power
- Connect camera cables to DVR
- Connect power cables to power supplies
- Turn on the DVR

Setting the date and time on your DVR

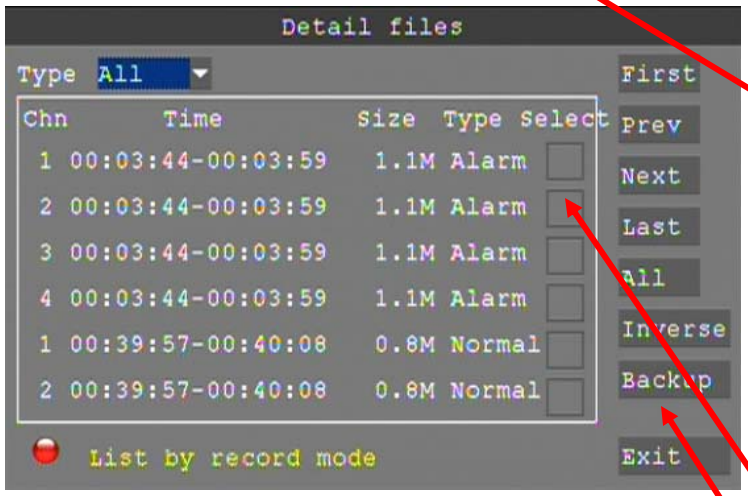
- From the Main menu click “System”
- In the “System” menu click “TimeDate”
- Enter the correct date in the “Date” field
- Select the preferred date format
- Enter the correct time in the “Time” field
- Select the preferred time format; we recommend 24-Hour format
- Select “Open” from the Daylight Saving Time drop-down to activate DST
- Select “Custom” from the DST Mode drop-down
- Select “2nd Week” from the “StartTime” drop-down
- Select “MAR” from the month drop-down
- Select “1st Week” from the “End Time” drop-down
- Select “NOV” from the month drop-down

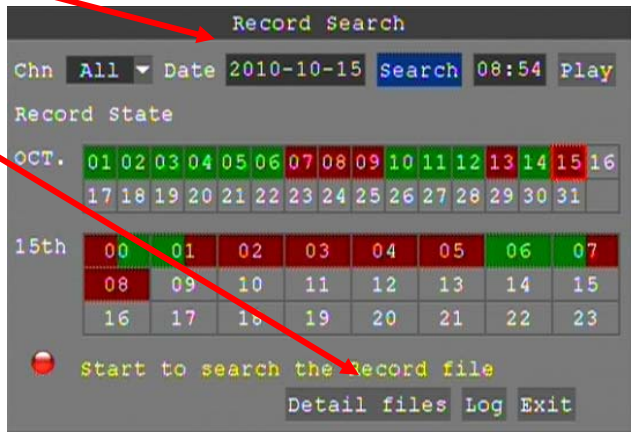


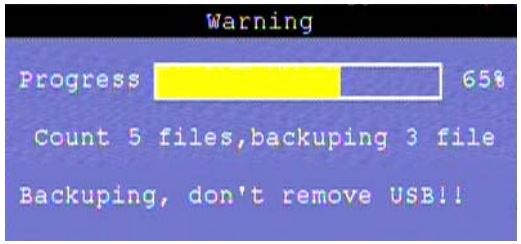
Saving Video from the DVR

To retrieve files from the DVR plug a thumb drive into the USB port on the front of the DVR

- From the Main menu click “Search”
- In the Search menu enter the Date and Time you want to search into their respective fields
- Click “Detail Files” to view the details screen







- Select the files you wish to copy by “check marking” the file in the “Select” box
- Click “Backup” to transfer the files to the thumb drive
- The DVR will display the message to the left while files are being copied to the thumb drive

View Saved Video on a Computer

•The video saved from the DVR is H.264 format, your DVR includes a CD with a file converter, called “Record Converter”, that allows you to convert the video files to .AVI files that can be viewed with Windows Media Player
•Copy the software from the CD to your computer and plug the thumb drive into the USB slot on the front
•Launch “Record Converter” software and select the file to convert from the thumb drive
•Name the converted file and click “Add”; this will add the converted file to your thumb drive

Access DVR from a Local Computer

Be sure that your router is communicating with your computer or laptop. If not follow the instructions provided with your router.

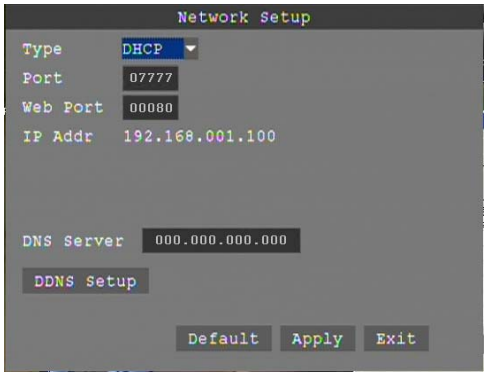
Connect the DVR to your router using a standard network cable

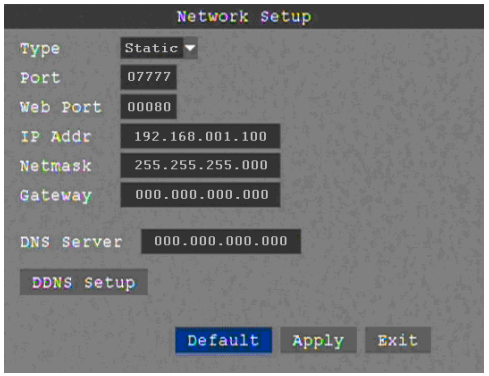
Download “NVClient” program to access DVR from your computer

•Load the software from the CD onto your computer or download NVClient from the Talos Security web site
•A shortcut named “NVClient” will be placed on your desktop
•**NOTE:** You may need to download “Winrar” to extract the compressed file

Configure DVR to access video on local computer

- From the DVR “Main Menu” click on “Network”

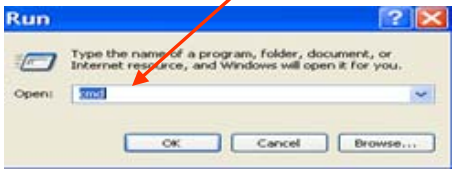




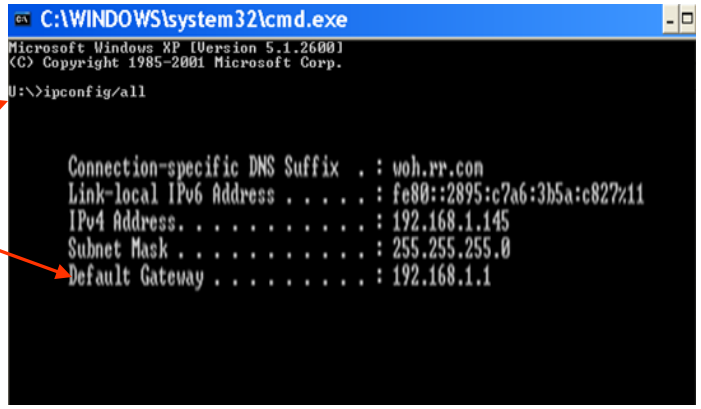
•When connected to a router the DVR will automatically negotiate an IP address.
•So you can find your DVR later, we recommend you assign it an IP address on your network. Simply enter a new number into the last three digits of the IP address and note that address.
•**Note:** To limit potential conflicts with other devices on your network, enter an address higher than what may be assigned by DHCP. Eg.192.168.1.222 or 192.168.0.222. The format must match that of your default gateway (router).

You can check your router’s IP address by :

Windows XP
-Click “Start” on your computer’s taskbar
-Click “Run”, type cmd then click “OK”


Run
Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open: cmd
OK
Cancel
Browse...

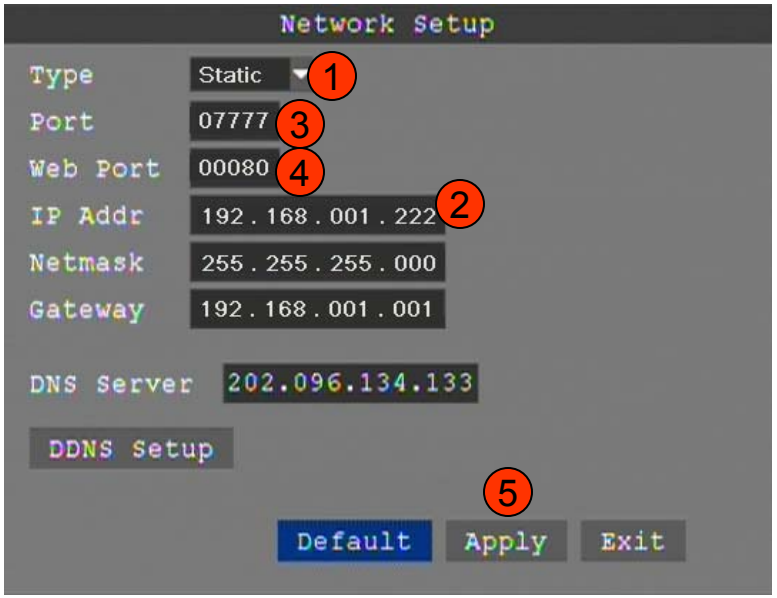
Type ipconfig/all
Look for Default Gateway


C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
U:\>ipconfig/all
Connection-specific DNS Suffix . : woh.rr.com
Link-local IPv6 Address . . . . . : fe80::2895:c7a6:3b5a:c827%11
IPv4 Address. . . . . : 192.168.1.145
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1

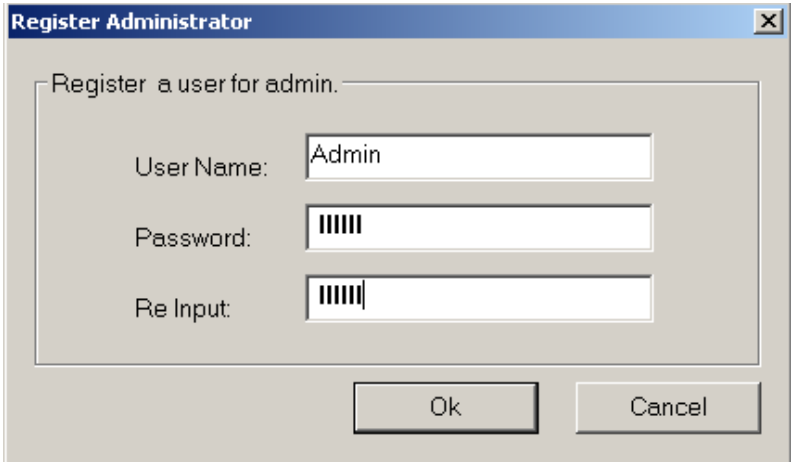
Windows 7
-Click “Start” then “Select All Programs”
-Click “Accessories” then “Command Prompt”

Configure DVR to access video on local computer

1. Click the drop-down arrow next to “Type”, select “Static”
2. Enter the new IP address into the field.
   - Eg.192.168.1.222
3. Enter “7777” into “Port”
4. Enter “80” into “Web Port”
5. Click “Apply”, then “Exit” and exit the DVR menus
6. Restart the DVR as outlined on page 6



Using NVClient to access your DVR from your PC



1. Click the NVClient shortcut on your desktop to launch the NVClient software
2. The first time you launch NVClient you will be prompted to enter a username and password

Note: This user name and password protects the client software from unauthorized access and is not the same as the username and password used in your DVR.

Viewing DVR from local PC or Laptop

1. Click the “Local Setup” tab on the main viewing screen

2. Under “Server Manage” click “Add”

3. Select “37DVR” from “Server Type”

4. Enter the IP address of your DVR on your network

5. Assign a name to your DVR

6. Enter “7777” into the “CMD Port” field

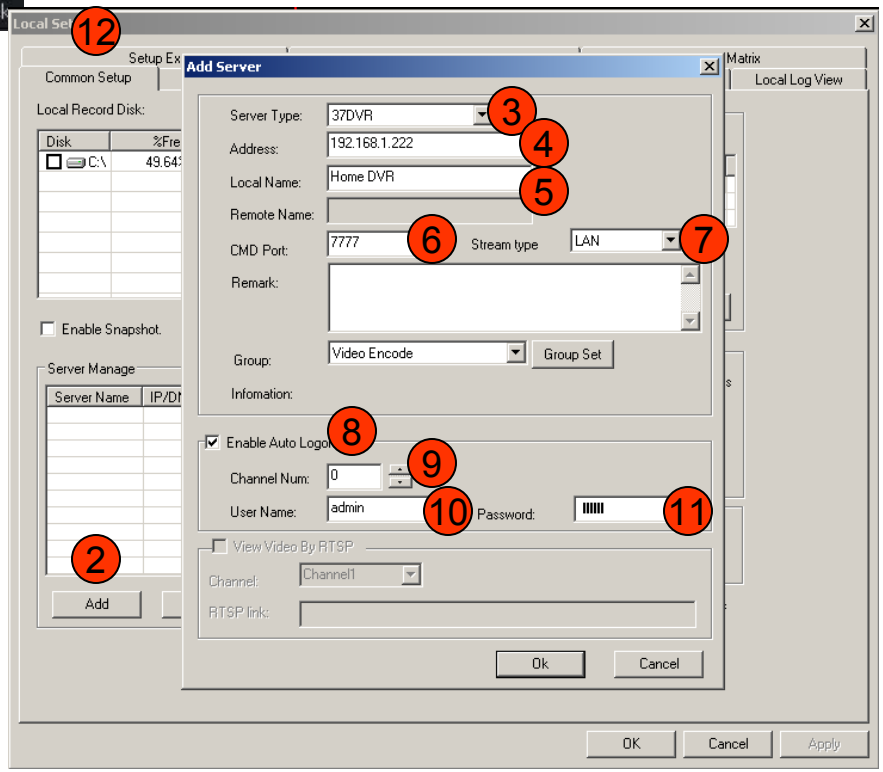
7. Select “LAN” from the “Stream Type” drop-down

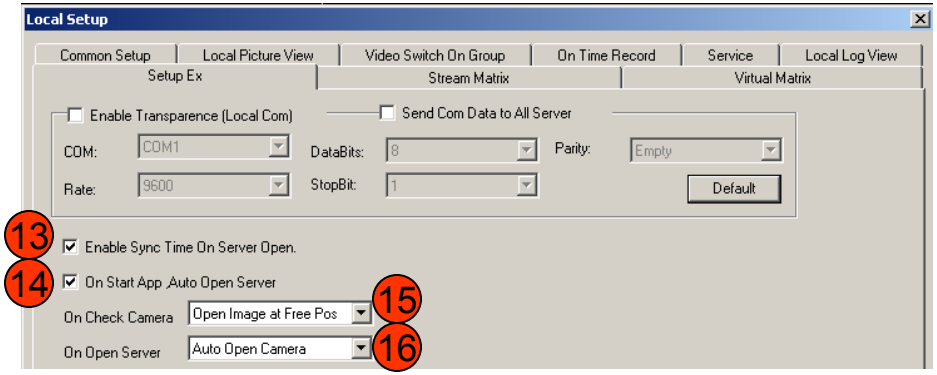
8. Check the “Enable Auto Logon” radio button

9. Select the number of channels your DVR supports

10. Enter your DVR User Name

11. Enter your DVR Password





12. Click the “Setup Ex” tab

13. Click “Enable Sync Time On Server Open”

14. Click “On Start App Auto Open Server”

15. Select “Open Image at Free Pos” from the “On Check Camera” drop-down

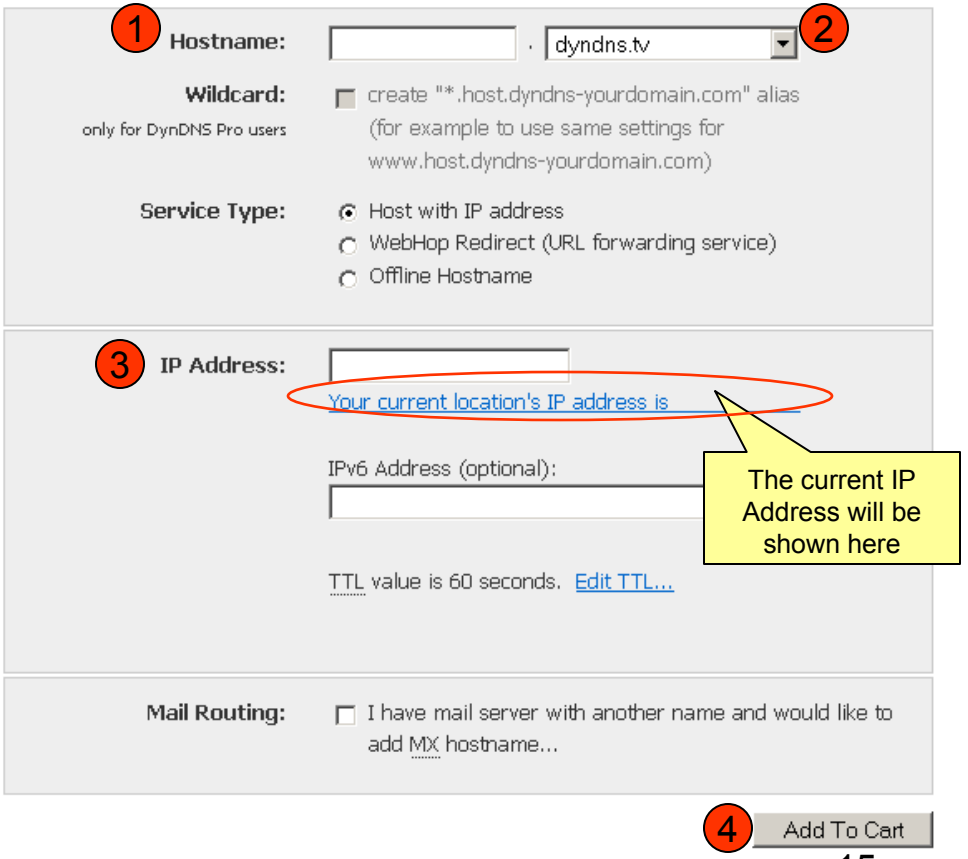
16. Select “Auto Open Camera” from the “On Open Server” drop-down

Access DVR Over the Internet

Signing up for your Domain name

- Sign up for free Dynamic Domain Name Service at dyn.com
- You will create a Domain Name, Account Name, and Account Password, make note of these as you set up your account
- Click “Get Started With DNS”
- Scroll to the bottom of the screen and click “DynDNS Free”
- Click “Get It Now”

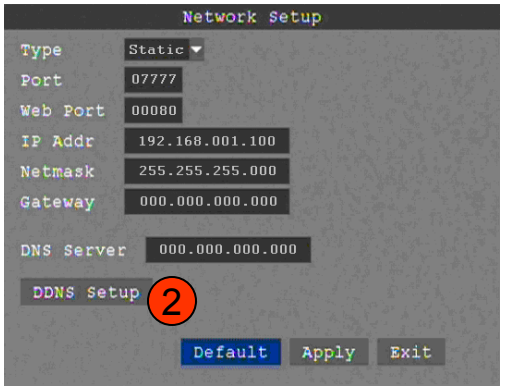
1. Enter a “Hostname (Domain Name)” of your choosing E.g.. talosdvr
2. Select an extension E.g.. dyndns.tv
3. Enter the IP address at the location the DVR will be running
   - The IP address of your current location is shown below the IP Address field
   - We recommended you set up your DYN account using a PC connected to the network the DVR will be connected
4. Click “Add To Cart”
5. Proceed to checkout
   - The web site will walk you through account registration and send an e-mail to you with a link for final activation
   - Note that the amount shown in all cost fields will be $0.00

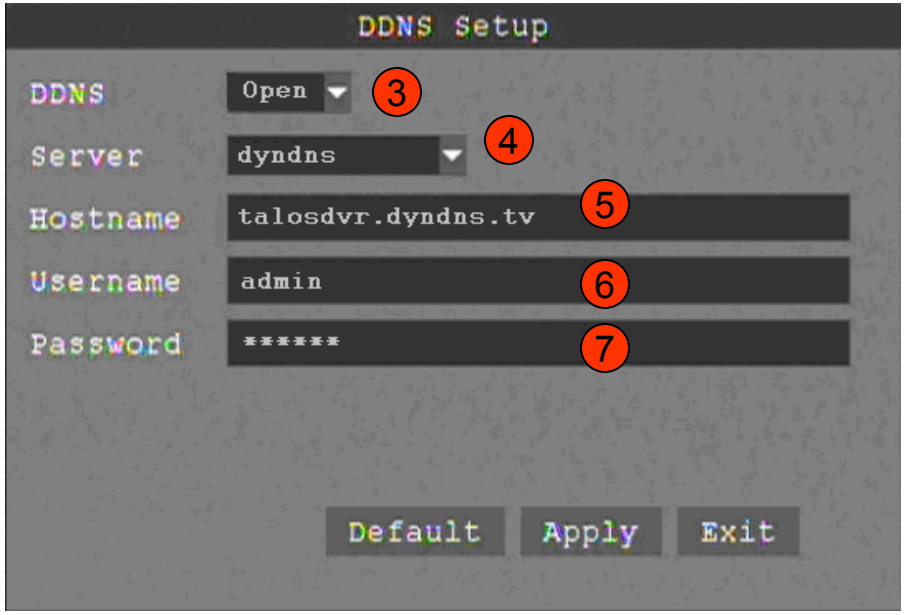


DVR Network Settings for Internet access

1. In the Main Menu click “Network”

2. In the Network Setup menu click “DDNS Setup”





3. Select “Open” from the DDNS drop-down menu
4. Select “dyndns” from the Server drop-down menu
5. Enter the Dyn host name you created on page 15
6. Enter the Dyn user name you created on page 15
7. Enter the Dyn password you created on page 15

Click “Apply” to save settings

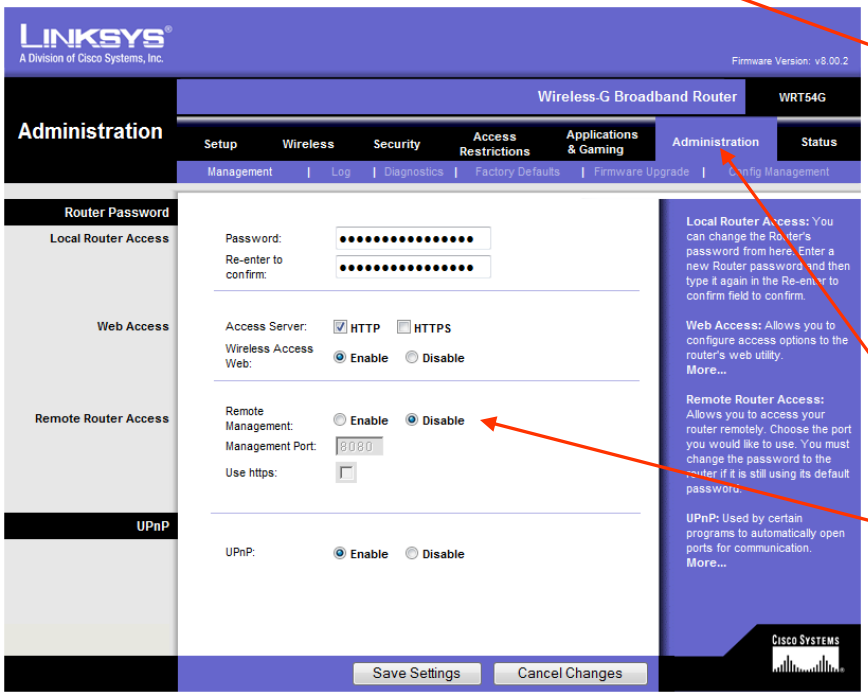
Configuring Your Router

You will need to configure your router for Port Forwarding to allow access to your DVR from the internet

•Open Internet Explorer
•Enter your router IP address in the address bar, this is the same as your Default Gateway
-We are using a Linksys router with an IP address of 192.168.1.1
-Your router may be different, consult your owners manual for port forwarding

•Enter your router Username and Password

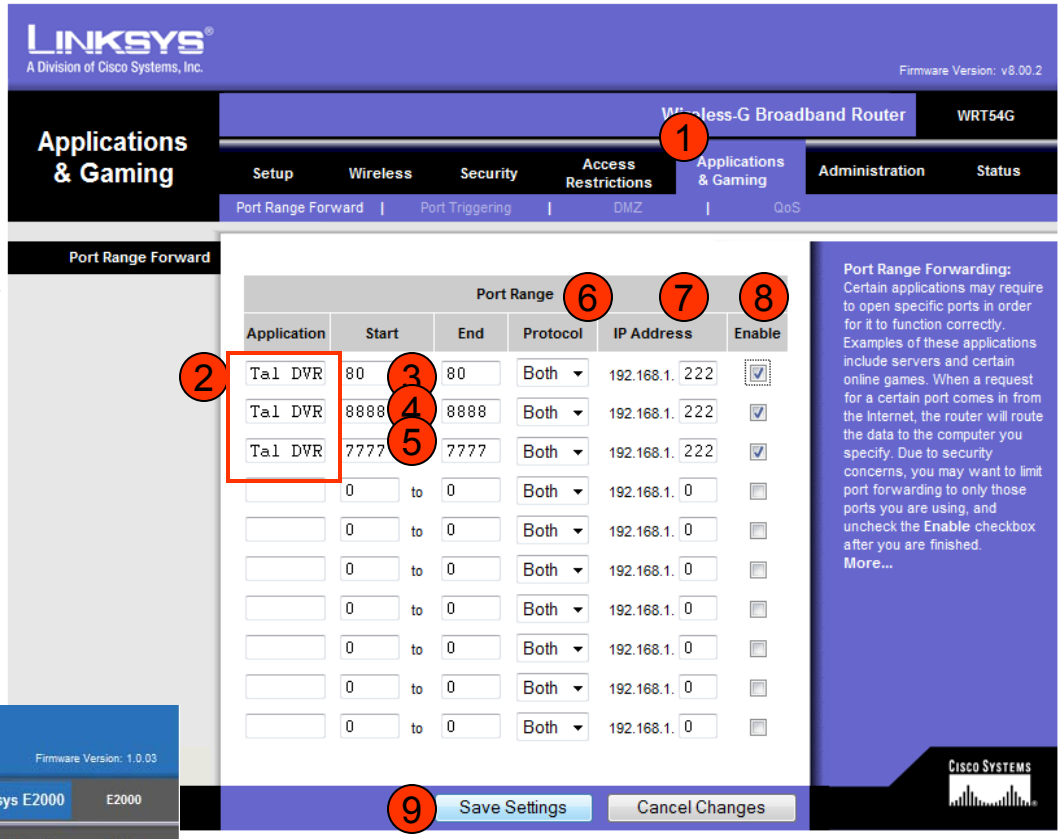
Google
Windows Security
The server 192.168.1.1 at WRT54G requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name
Remember my credentials
OK
Cancel

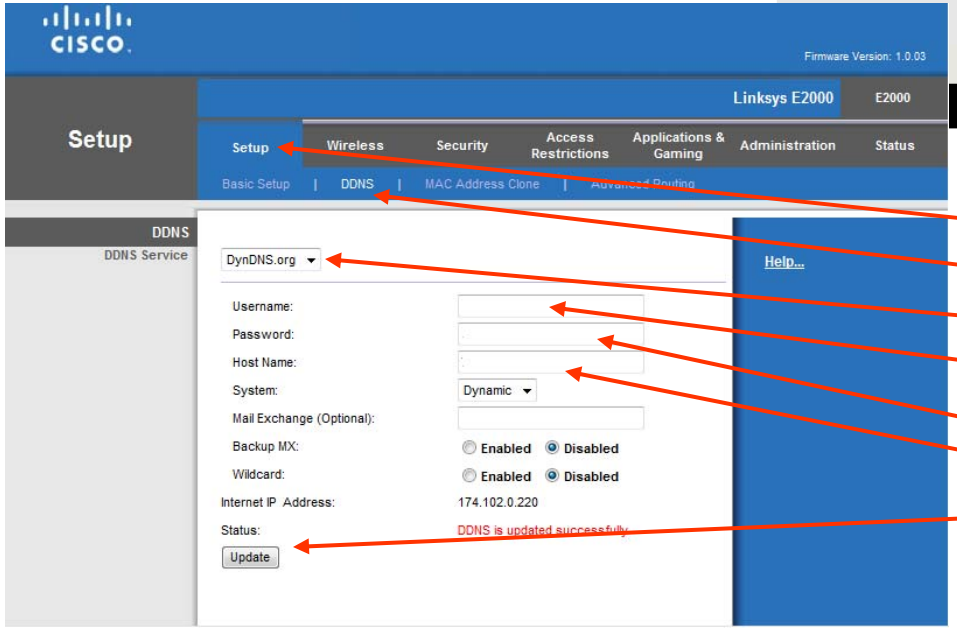

LINKSYS
A Division of Cisco Systems, Inc.
Firmware Version: v8.00.2
Wireless-G Broadband Router
WRT54G
Administration
Setup
Wireless
Security
Access Restrictions
Applications & Gaming
Administration
Status
Management | Log | Diagnostics | Factory Defaults | Firmware Upgrade | Config Management
Router Password
Local Router Access
Password:
Re-enter to confirm:
Web Access
Access Server: HTTP HTTPS
Wireless Access Web: Enable Disable
Remote Router Access
Remote Management: Enable Disable
Management Port: 8080
Use https:
UPnP
UPnP: Enable Disable
Local Router Access: You can change the Router's password from here. Enter a new Router password and then type it again in the Re-enter to confirm field to confirm.
Web Access: Allows you to configure access options to the router's web utility. More...
Remote Router Access: Allows you to access your router remotely. Choose the port you would like to use. You must change the password to the router if it is still using its default password.
UPnP: Used by certain programs to automatically open ports for communication. More...
Cisco Systems
Save Settings
Cancel Changes

•Click the Administration tab
•Disable “Remote Management”

Configuring Your Router

1. Click the “Applications & Gaming” tab
2. Enter the name of the Application
   - For example Tal DVR
3. Enter the port range (80 to 80)
   - It is OK to enter the same port number as both the Start and End of the range
4. Enter Mobile Port 8888
5. Enter Server Port 7777 (Used by the DVR)
6. Set Protocol to Both
7. Enter the IP address from the DVR
   E.g. 168.192.1.222
8. Click “Enable”
9. Click “Save Settings”


LINKSYS
A Division of Cisco Systems, Inc.
Firmware Version: v8.00.2
Wireless-G Broadband Router
WRT54G
Applications & Gaming
Setup
Wireless
Security
Access Restrictions
Applications & Gaming
Administration
Status
Port Range Forward | Port Triggering | DMZ | QoS
Port Range Forward
Port Range
Application
Start
End
Protocol
IP Address
Enable
Tal DVR 80 80 Both 192.168.1. 222
Tal DVR 8888 8888 Both 192.168.1. 222
Tal DVR 7777 7777 Both 192.168.1. 222
Port Range Forwarding:
Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the router will route the data to the computer you specify. Due to security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the Enable checkbox after you are finished.
More...
Save Settings
Cancel Changes
Cisco Systems
1
2
3
4
5
6
7
8
9



- Click the “Setup” tab
- Click “DDNS”
- Select DynDNS.org
- Enter DynDNS user name
- Enter DynDNS password
- Enter DynDNS Host Name
- Click “Update”

Accessing DVR Over the Internet Using Client Software

1. Click the “Local Setup” tab on the main viewing screen

2. Under “Server Manage” click “Add”

3. Select “37DVR” from “Server Type”

4. Enter your Dyn host name

5. Assign a name to your DVR

6. Enter “7777” into the “CMD Port” field

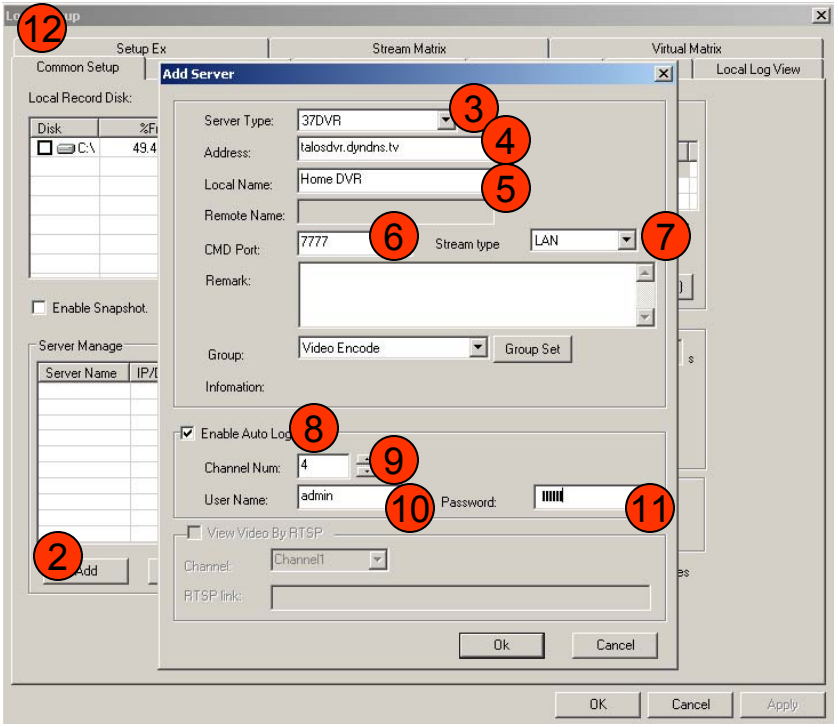
7. Select “LAN” from the “Stream Type” drop-down

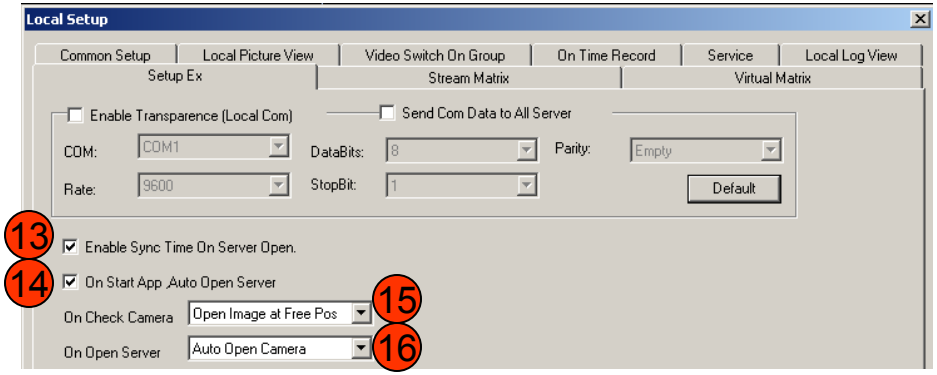
8. Check the “Enable Auto Logon” radio button

9. Select the number of channels your DVR supports

10. Enter your DVR User Name

11. Enter your DVR Password





12. Under the “Setup Ex” tab

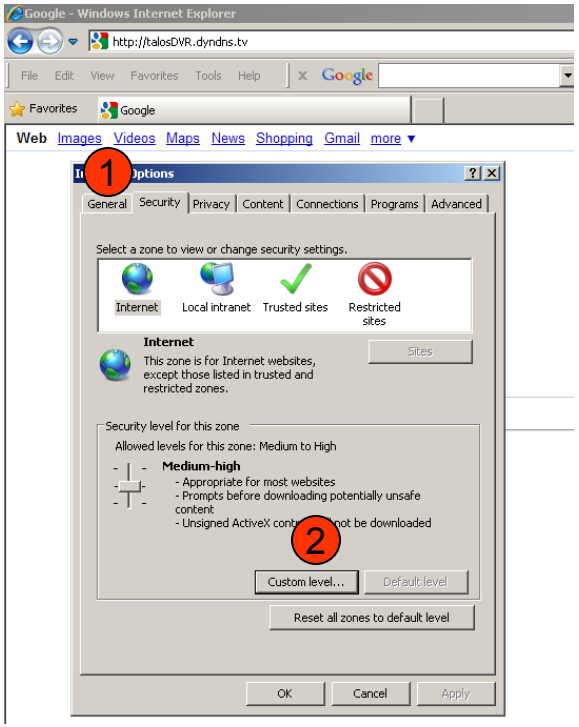
13. Click “Enable Sync Time On Server Open”

14. Click “On Start App Auto Open Server”

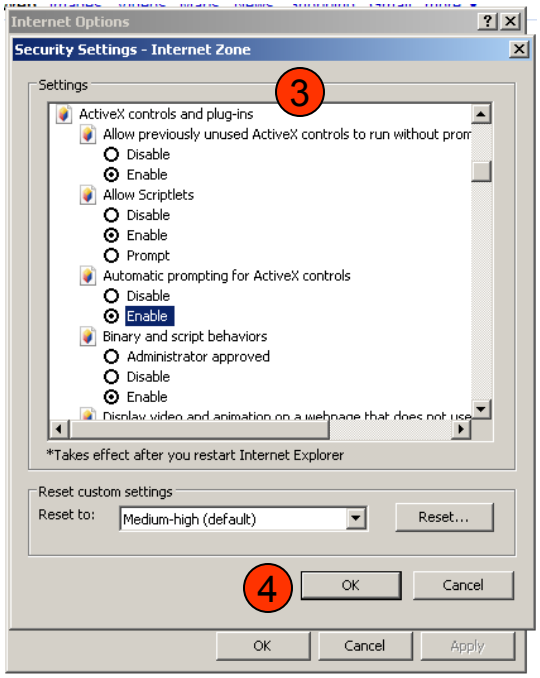
15. Select “Open Image at Free Pos” from the “On Check Camera” drop-down

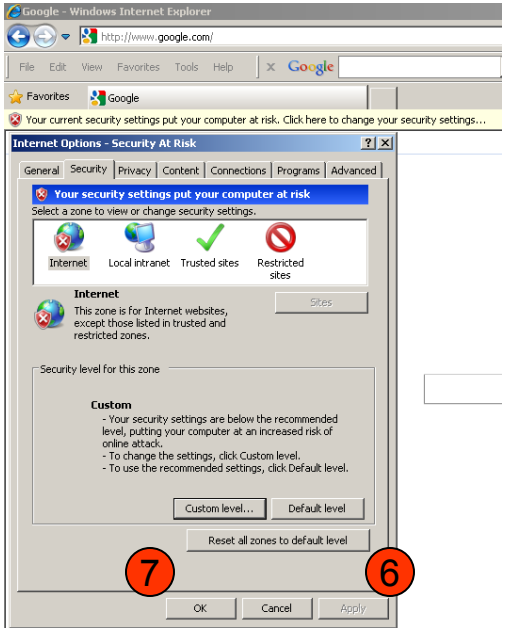
16. Select “Auto Open Camera” from the “On Open Server” drop-down

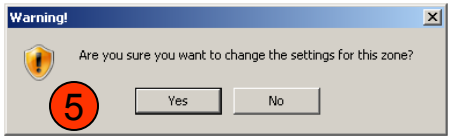
Accessing DVR Over the Internet Using Internet Explorer – Configure Internet Explorer


Google - Windows Internet Explorer
http://talosDVR.dyndns.tv
Web Images Videos Maps News Shopping Gmail more
Options
General Security Privacy Content Connections Programs Advanced
Select a zone to view or change security settings.
Internet Local intranet Trusted sites Restricted sites
Internet
This zone is for Internet websites, except those listed in trusted and restricted zones.
Sites
Security level for this zone
Allowed levels for this zone: Medium to High
Medium-high
- Appropriate for most websites
- Prompts before downloading potentially unsafe content
Custom level...
Default level
Reset all zones to default level
OK
Cancel
Apply
1
2

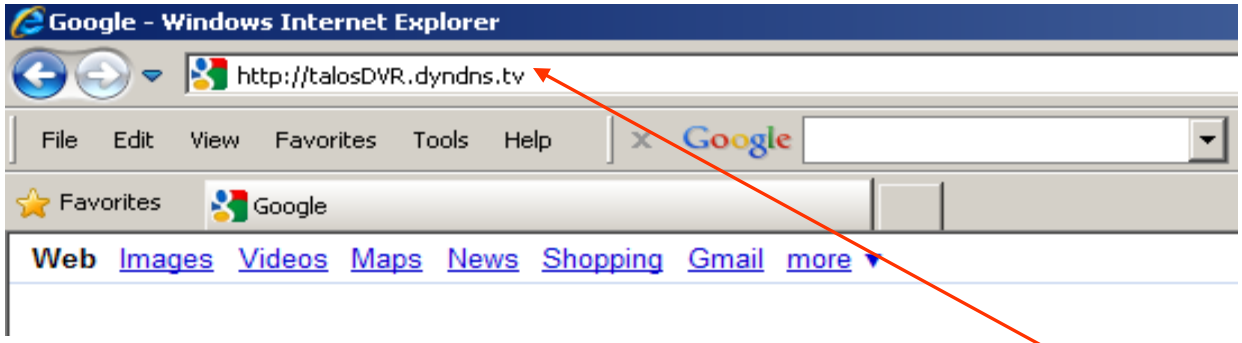
1. Click the “Security” tab
2. Click the “Custom level” tab
3. Enable all settings under ActiveX controls and plug-ins
4. Click OK
5. Click Yes in the “Are you sure you want to change…” dialog box
6. Click Apply
7. Click OK
8. Close Internet Explorer to save changes



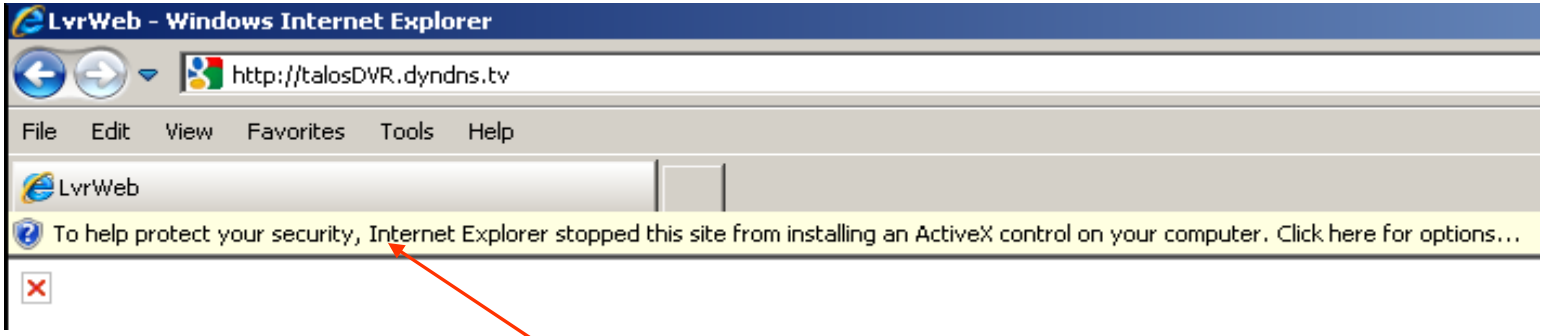

Google - Windows Internet Explorer
http://www.google.com/
Your current security settings put your computer at risk. Click here to change your security settings...
Internet Options - Security At Risk
General Security Privacy Content Connections Programs Advanced
Your security settings put your computer at risk
Select a zone to view or change security settings.
Internet Local intranet Trusted sites Restricted sites
Internet
This zone is for Internet websites, except those listed in trusted and restricted zones.
Sites
Security level for this zone
Custom
- Your security settings are below the recommended level, putting your computer at an increased risk of online attack.
- To change the settings, click Custom level.
- To use the recommended settings, click Default level.
Custom level...
Default level
Reset all zones to default level
OK
Cancel
Apply
7
6



Accessing DVR Over the Internet Using Internet Explorer – Configure Internet Explorer



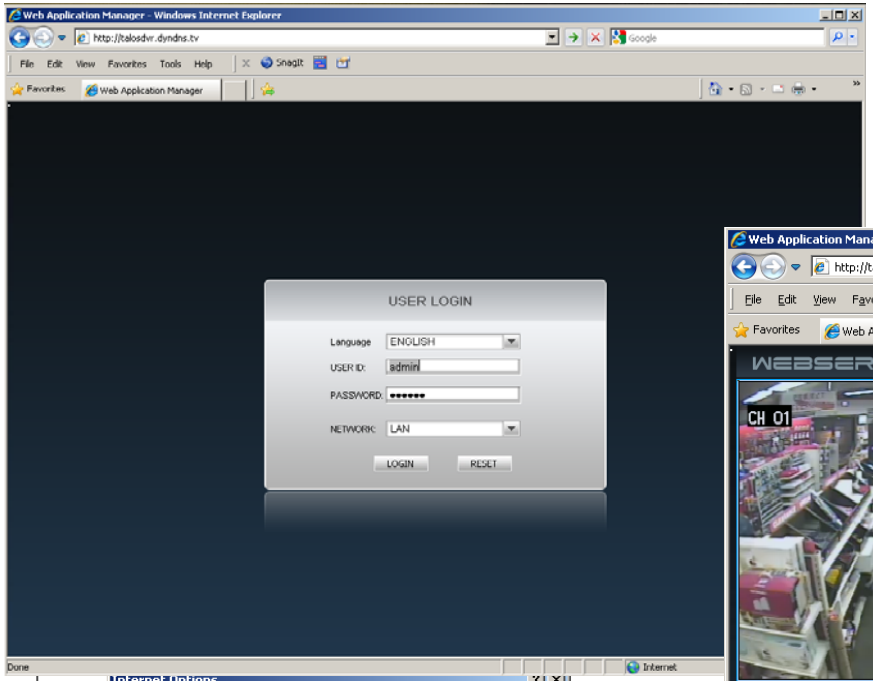
- Open Internet Explorer
  - Internet Explorer is recommended for network or internet access to your DVR
- In the address line, enter your domain name
  - The name you created when you set up your DynDNS account E.g.. http://talosdvr.dyndns.tv


LvrWeb - Windows Internet Explorer
http://talosDVR.dyndns.tv
File Edit View Favorites Tools Help
LvrWeb
To help protect your security, Internet Explorer stopped this site from installing an ActiveX control on your computer. Click here for options...

If IE displays the warning above, click the yellow bar
Click Run ActiveX Control
You now have access to your DVR and Log-in screen

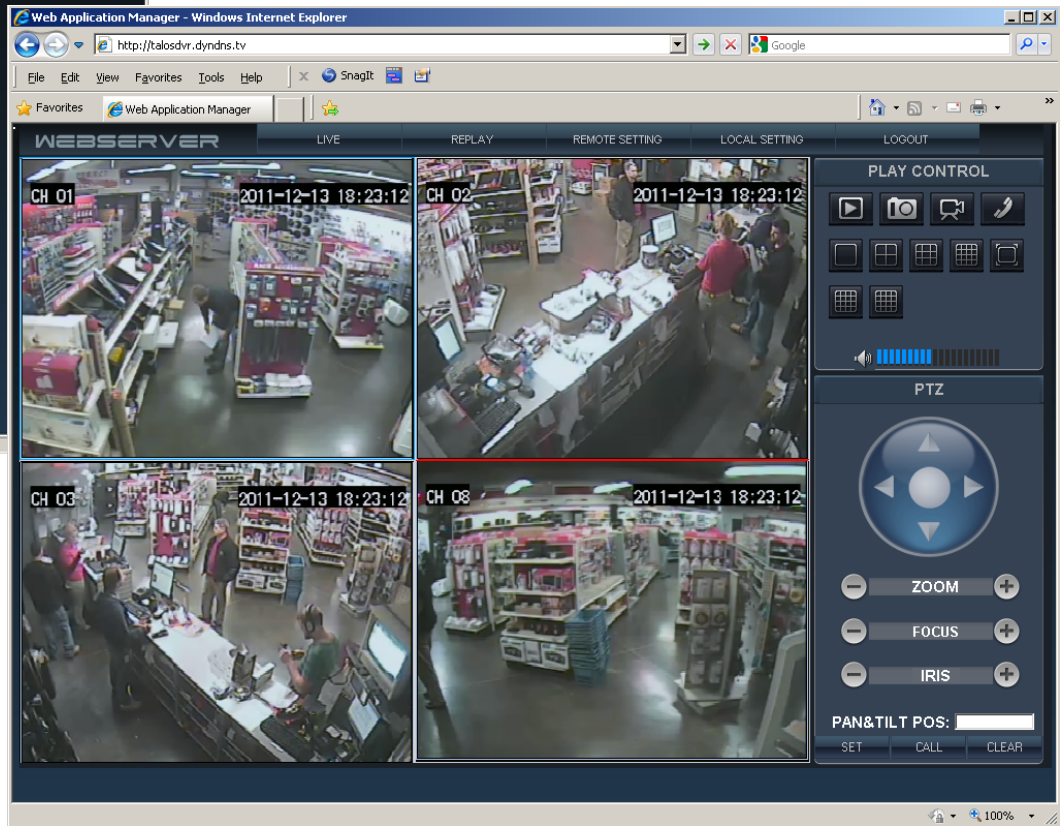
NOTE: The security settings of some computers may not allow access to the DVR. If you can see “LvrWeb” on the browser tab, the DVR is functioning properly and you are connected. It may be necessary for you to request help from a computer specialist to set the computer to view the DVR

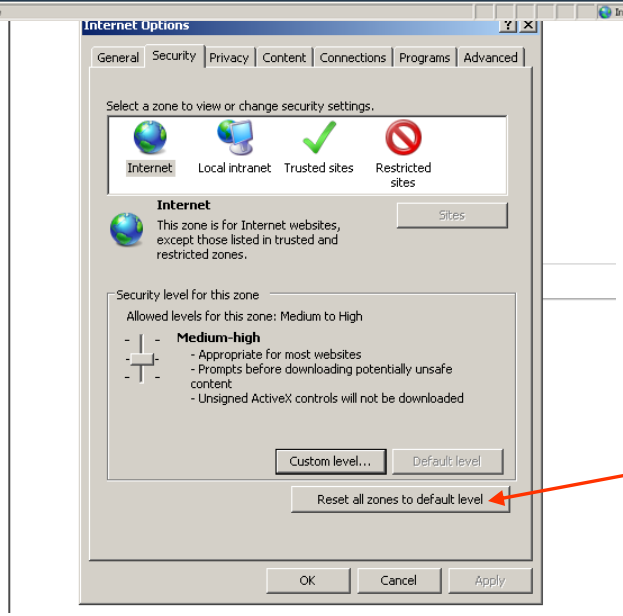
Accessing DVR Over the Internet Using Internet Explorer



- Enter your DVR Username and Password
- Click “Login”

The main viewing and interface screen will show you the cameras attached to your DVR.





- You can now reset the security settings in Internet Explorer
- Click Tools, Internet Options, Security
- Click Reset all zones to default level
- Click OK